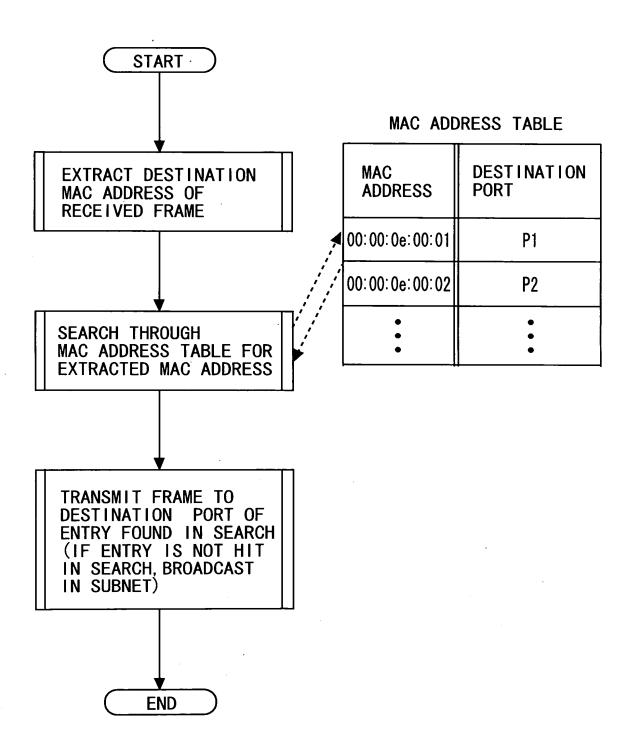


2/11 FIG. 2



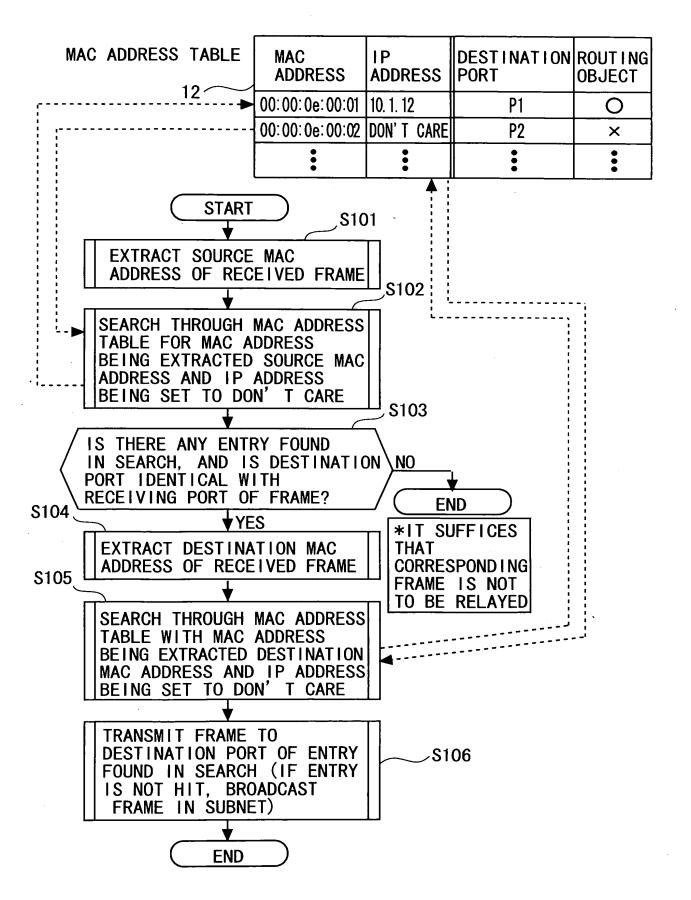
3/11 FIG. 3

MAC ADDRESS TABLE

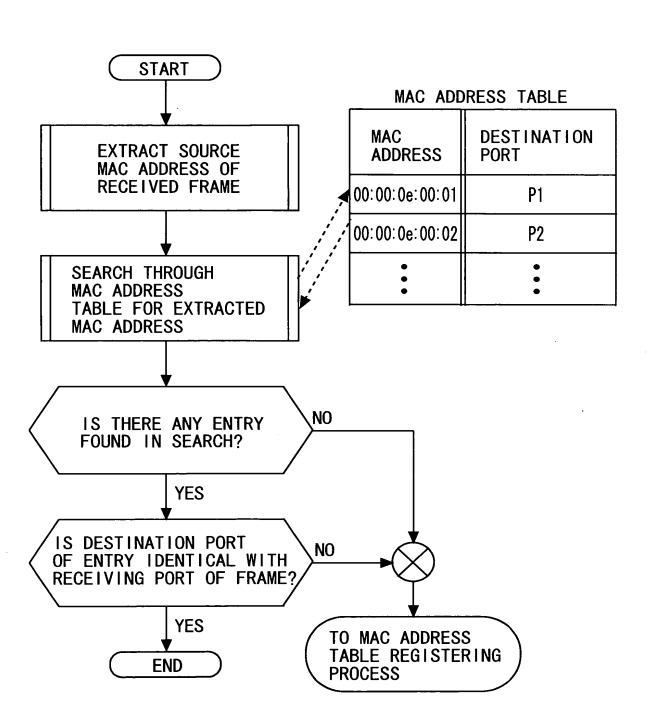
12

| MAC ADDRESS | IP ADDRESS | DESTINATION PORT | ROUTING OBJECT |
|----------------|-------------|------------------|----------------|
| 00:00:0e:00:01 | 10. 1. 1. 2 | P1 | 0 |
| 00:00:0e:00:02 | DON'T CARE | P2 | × |
| • | • | | • |

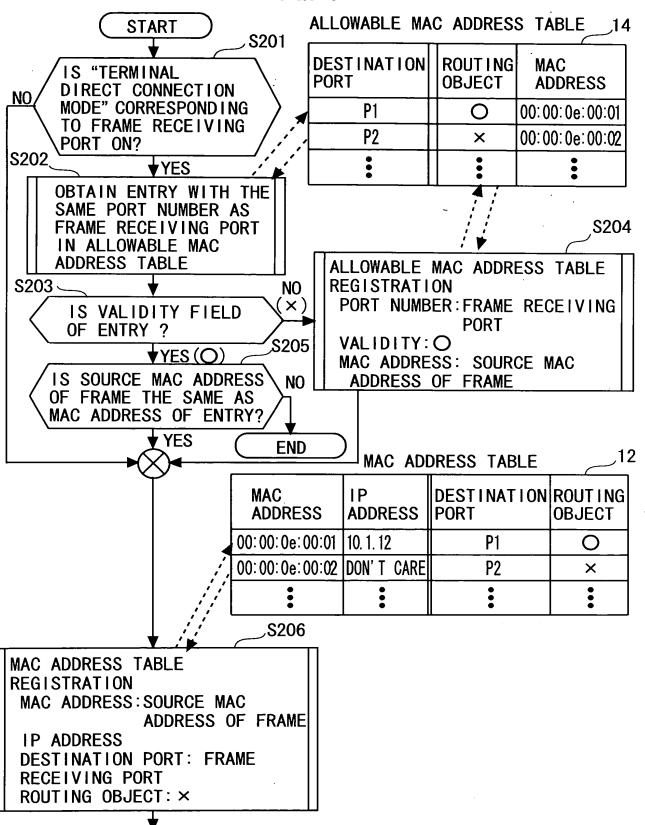
4/11 FIG. 4



F/G. 5

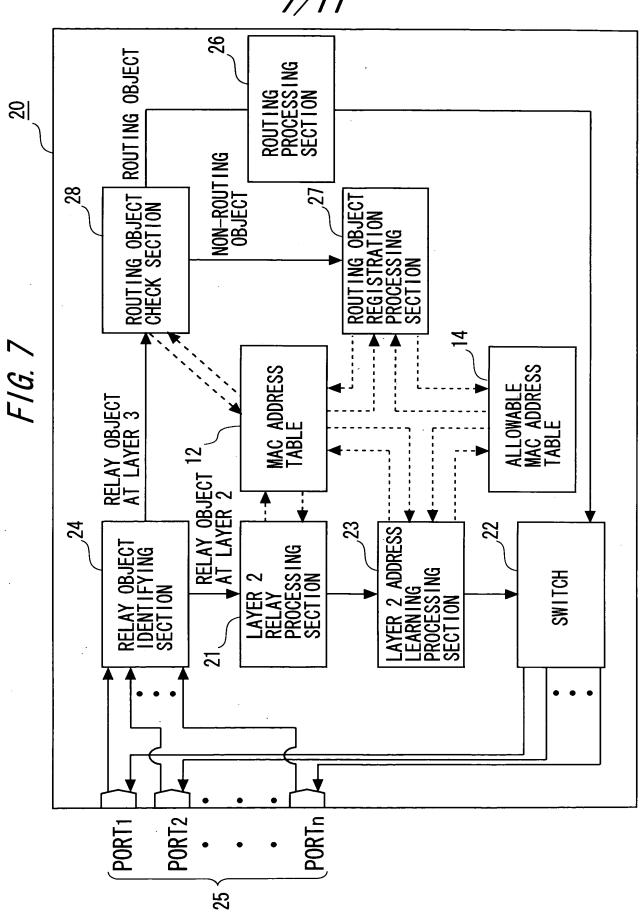


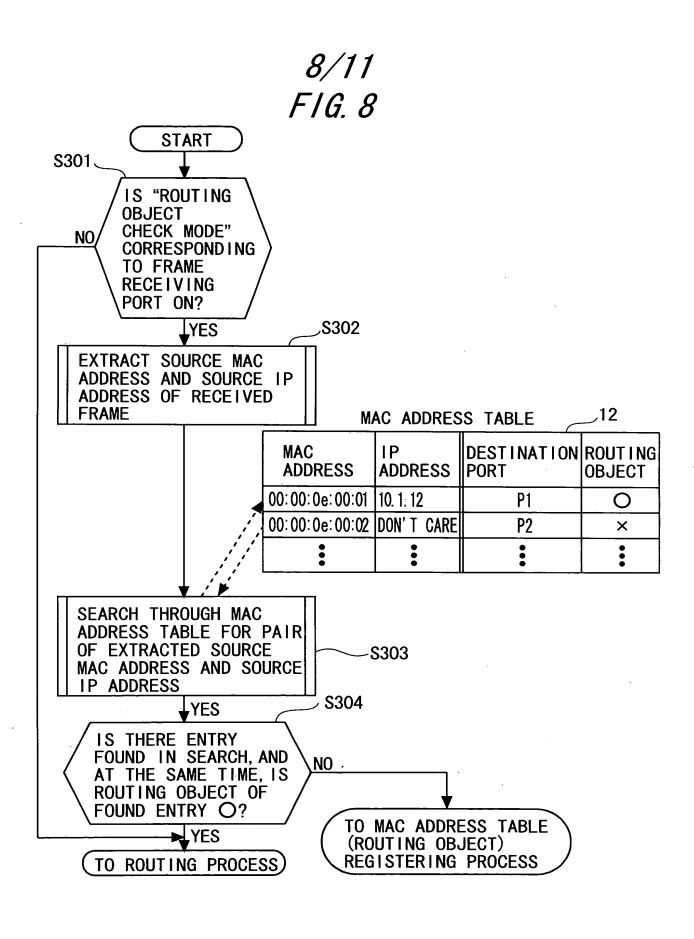
6/11 FIG. 6



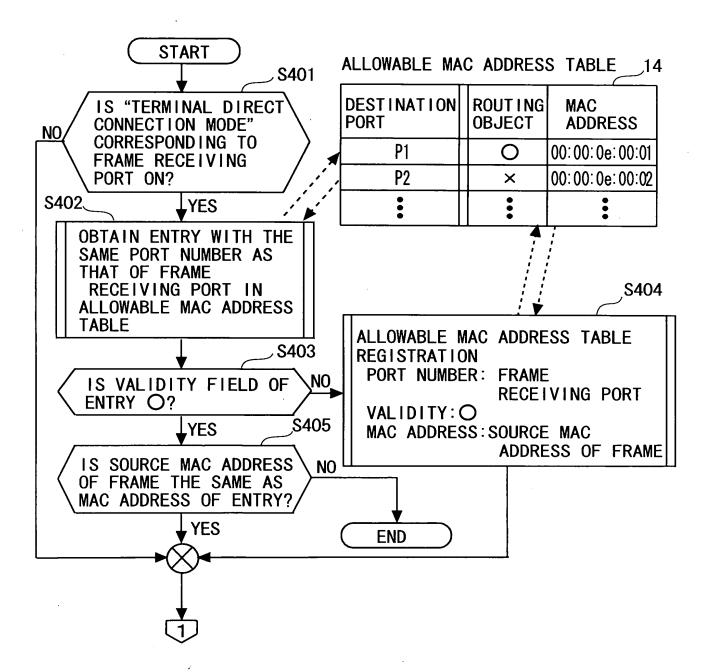
END



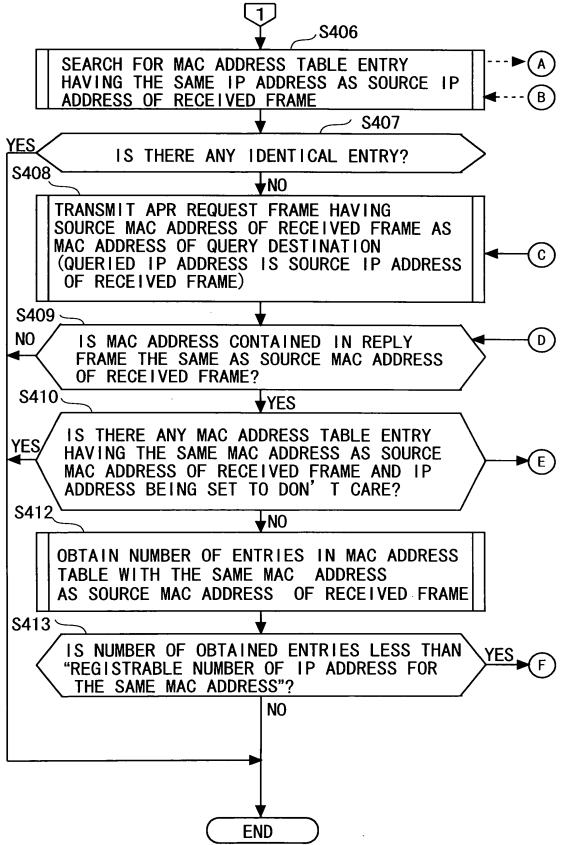




9/11 FIG. 9



10/11 FIG. 10A



11/11 FIG. 10B

| 12 | MAC ADDRESS TABLE | | DESTINATION | ROUTING |
|---------------|-------------------|------------|-------------|---------|
| | MAC ADDRESS | IP ADDRESS | PORT | OBJECT |
| A ···► | 00:00:0e:00:01 | | P1 | 0 |
| B ◆ | 00:00:0e:00:02 | DON'T CARE | P2 | × |
| _ | • | • | • | • |

*IF PING IS TRANSMITTED, SET AND
TRANSMIT PING WITH SOURCE MAC
ADDRESS TRANSMITTED FRAME AS
DESTINATION MAC ADDRESS OF PING AND
SOURCE IP ADDRESS OF RECEIVED FRAME
AS DESTINATION IP ADDRESS

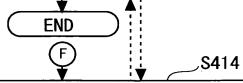
*IF PING WAS TRANSMITTED, CHECK
WHETHER OR NOT SOURCE MAC ADDRESS
AND SOURCE IP ADDRESS OF PING REPLY
FRAME ARE IDENTICAL WITH SOURCE MAC
ADDRESS AND SOURCE IP ADDRESS OF
RECEIVED FRAME RECEIVING PORT

MAC ADDRESS TABLE REGISTRATION *OVERWRITE ENTRY AS FOLLOWS

MAC ADDRESS: SOURCE MAC ADDRESS OF RECEIVED FRAME IP ADDRESS: SOURCE IP ADDRESS OF RECEIVED FRAME

E

IP PORT: FRAME ROUTING OBJECT: O



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MAC ADDRESS TABLE REGISTRATION
*REGISTER THE ENTRY SO AS TO BE FIRST FOUND IN SEARCH
MAC ADDRESS: SOURCE MAC ADDRESS OF RECEIVED FRAME
IP ADDRESS: SOURCE IP ADDRESS OF RECEIVED FRAME
DESTINATION PORT: FRAME RECEIVING PORT

ROUTING OBJECT: O

___▼ END